

RO

associates

analog
building blocks

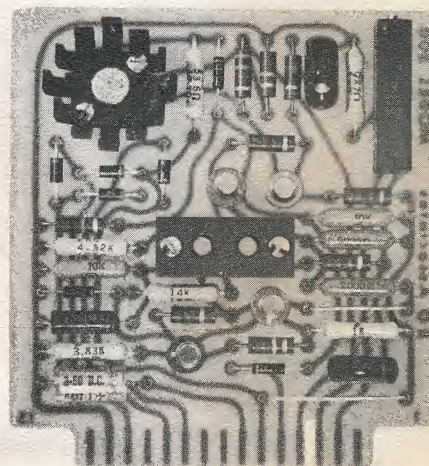
VOLTAGE REGULATOR

MODEL 500

and complete power supplies

OUTSTANDING FEATURES

- ☐ **WIDE RANGE** 3 - 32v
- ☐ **HIGH OUTPUT** Up to 1 Amp
- ☐ **GOOD REGULATION** 0.02%
- ☐ **SHORT CIRCUIT PROOF**..Current Limited
- ☐ **LOW PRICE** \$55.00

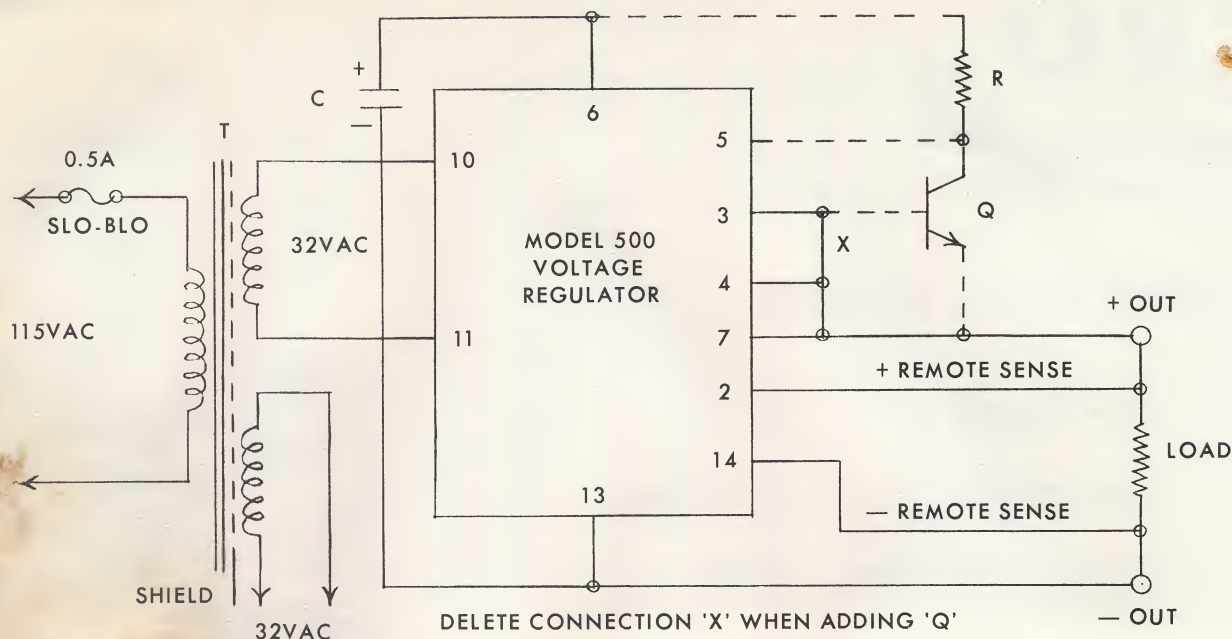


The RO Model 500 is an all silicon solid-state voltage regulator with remote sensing, external programming, and short circuit protection. The unit's wide adjustable voltage range (3 - 32v) and high current capability (built in rectifiers allow operation at up to 1 amp with external transistor) make it an ideal power supply for integrated circuits.

The Model 500 is fully compatible with the RO analog module line, and is a component of the PS503 (single output) and PS504 (dual output) power supplies described on the reverse side of this data sheet.

SPECIFICATIONS — MODEL 500 VOLTAGE REGULATOR

OUTPUT Voltage 3 - 32 volts, adjustable Current 50 ma, or 1 amp with added transistor	INPUT Voltage 32v rms, $\pm 10\%$ Frequency Dc - 1Kc
REGULATION No load to full load $<0.02\%$ 10% Input Change $<0.02\%$	RIPPLE & NOISE $<0.005\%$
PROTECTION 50ma output Current limited to less than 130% of full load 1 amp output Adjustable current limiting Short circuit proof	DRIFT 0 to 50°C $<0.02\%/^{\circ}\text{C}$ 24 hours $<0.02\%$ OUTPUT IMPEDANCE 1 Kc $<0.2\ \Omega$ TRANSIENT RESPONSE 50ma step load change $<0.1\text{v peak}$ Recovery time $<25\mu\text{s to } 0.1\%$



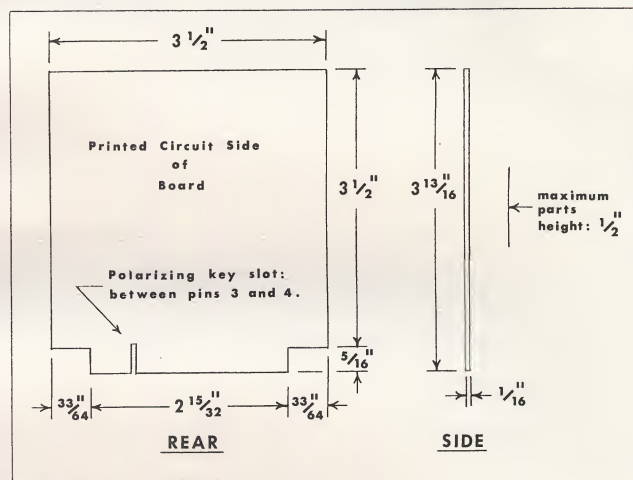
Transistor Q and Current Limit Resistor R are not required for 50ma operation.

For 1 amp operation, RO recommends:

Q.....RCA Type 2N3055
 C.....100uf @ 50v for 50 ma output
 2000 uf @ 50v for 1 amp output
 R..... $3/I_{limit}$ (3Ω for 1 amp)
 T.....RO Type 502 (Dual 1 amp)
 TRIAD F92A (1 amp)
 TRIAD F91X (50ma)

CONNECTOR

Standard 15 pin connector for 1/16 inch printed circuit board with 0.156 inch pin spacing.



ORDERING INFORMATION Model 500 Voltage Regulator

Availability Stock
 Price \$55.00
 FOB San Carlos, California
 Shipping weight.... 6 ounces
 Terms Net 30 days
 Ordering Address: RO Associates, Inc.
 917 Terminal Way
 San Carlos, California

OTHER RO PRODUCTS

Model 901 Operational Amplifier \$49.50
 Model 950 Voltage Comparator \$49.50
 Model T502 Dual-Output Transformer \$12.50

COMPLETE POWER SUPPLIES

RO MODEL PS 503

Output 3 - 32vdc, 1 amp
 Input 105 - 125 vac, 50 - 400 cps
 Performance Same as Model 500 regulator
 Construction Mounted on an open chassis
 Price \$145.00

RO MODEL PS 504

Output Dual, 3 - 32vdc, 1 amp each
 Input 105 - 125vac, 50 to 400cps
 Performance Same as Model 500 regulator
 Construction Mounted on an open chassis
 Price \$230.00

RO ASSOCIATES, INCORPORATED

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